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Categories: Blue Category

VINTRA MONTHLY NEWSLETTER

Monthly Newsletter

[Veni. Vidi. Vici.](#)



As Julius Caesar once said, *Veni, vidi, vici* (I came, I saw, I conquered). While we didn't pillage and plunder, we here at Vintra have had quite a few busy weeks taking home awards.

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Monthly Newsletter

SIA NPS Award Winner!




Vintra takes home another trophy! We are thrilled to announce that our video analytics solution, FulcrumAI, has been selected as [Best in Video Analytics by the Security Industry Association at the New Product Showcase awards](#) during ISC West 2019. The award recognizes outstanding and innovative security solutions.

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Monthly Newsletter

Automating Campus Security

artificial intelligence



"Why is it that our most vulnerable targets are the least secured?"

The modern-day university and college campus often is a vast array of educational, research, and entertainment options in which to participate. From basketball games inside packed, raucous stadiums, to nuclear and medical research facilities, to designs, of course, and low-level public squares for everyone to enjoy the variability of college life is what makes the idea of a campus so exciting. That same variability invites just as many concerns for security and safety stakeholders. The key question to answer for all campus security administrators is: how to create safe and secure environments while maintaining the sense of freedom and access that all students, visitors, and staff members merit?

The good news: Your campus is already equipped with the sensors needed to not only respond to incidents faster, but to proactively prevent them. All this, while not becoming a 1980s-inspired police state.

Deep Learning-Powered AI Applications

In recent years, tremendous advancements in computing power have made possible ground-breaking physical security solutions powered by artificial intelligence (AI). When combining cutting-edge soft-

ware, like video analytics, with the proliferation of high-quality and affordable cameras of all kinds, the amount of data for campus security professionals is clear: colossal. Canvases of all types, from fixed to PTZ to mobile cameras, represent human resources dedicated to campus security and make those resources more efficient, intelligent and effective.

There are many ways to upgrade a campus' physical safety (CPSD) walls, various IoT apps placed on barriers but in most cases security teams are left responding to incidents. The existing fabric of campus security, made possible by AI, is in preventing incidents. Campus security stakeholders can deploy intelligent, real-time, non-person security solutions powered by deep learning AI and video analytics, today, that integrate with their current surveillance infrastructure.

Why Deep Learning AI? Why Now?

Recently, at a well-known university, a student was assaulted after the program's general entrance to a dorm common room during the middle of the night. This is an all-too-common type of incident that could have been prevented, not just responded to quicker. Imagine that the assailant was a known threat to the victim, or a bad person with history of sexual violence, or even a recently fired employee or vendor.

With an AI-powered video analytics solution in place, security and campus police can employ optical patterns of a potential candidate for a blockhead and, from that moment on, whenever he is detected on any camera, security would immediately be alerted and the assault

would be averted from campus. In the case of this university, they upgraded their access management security measures, as well as their event security personnel and personnel to add more security cameras. An alternative to more security guards (i.e. more wages) is a solution, powered by the fact that they would only allow students to enter the dorm after hours.

After the assault was reported, police searched surveillance footage for the offender. In any real-time search, or post-event investigation, identifying the target as quickly as possible is an incredibly high-value task. Unfortunately, humans are terrible at video review and/or monitoring. After only 11 minutes of sustained video review of a single monitor, humans lose up to 80 percent of visual acuity. Add another screen to review or less monitor, and the results are just as dire. Augmenting human resources with AI is a true multiplier in time-sensitive situations.

With an AI-powered video analytics solution, police can immediately search the camera for, say, a man wearing a red shirt, or a

blue pickup truck, heading away from campus. In addition to facial recognition, with data powered by deep learning can create a unique signature of the whole person or object, using 200 dimensions instead of the normal three (as our human experience for us (the year would explode per) allowing operators to track the individual from camera to camera, even if they face a new monitor.

Critical Facilities

In many universities, critical facilities such as nuclear research or infectious labs, medical centers, with individual health records, some chemicals, or even weapons, are prime targets for theft. Instead of relying on costly security guards to guard the perimeter, and off-duty guards to patrolling inside walls, multiple sensors in a command center, video analytics can be integrated into any VMS to better secure both the interior and exterior of these critical facilities.

Facilities like Activating Infection Zones are a true multiplier for critical facility security. Solutions with robust rules engines enable operators to create alerts based on time, time, and action. If the medical storage facility that houses (Fentanyl) for instance, has several opening hours of a use, it is possible, security can set intrusion rules to alert if anyone enters the perimeter after 4 p.m. Walking through Fridge and 100% on the weekend.

Additionally, if clearing covers close the facilities during open hours, security can set a rule to be notified if a person enters the equal storage area wearing a yellow top (the hypothetical clearing, cover's uniform) and remains in the storage room for longer than it typically requires to empty the single trash receptacle. Deep learning-powered video


analytics will enable security stakeholders to accurately track the the perimeter, but video rules that humans are currently relied on to perform and respond human resources in higher value work.

Response Analytics

Video analytics solutions built on deep learning algorithms continuously improve, unlike legacy systems, and in the very near future will give the power of learning abilities to the end user. Understanding AI and enabling operators to create complex rules with a few simple clicks of a button is what today gets. Administrators, like me, excited. Take another step away from a local university on the west coast - vaccines.

Radiation sensors like this, that and time have enabled college and enterprise campuses. Campus security directors describe scenarios in vulnerable locations, such as basketball game times, dorms and elevators. My father, who usually had a circle, would have the right to see what he only parking spot or accessible driveway blocked by a vehicle or, worse, left in front of the elevator causing him to trip on the stairs and fall as he exits.

The answer? A sensor detector. Thanks to the processing power of deep learning solutions, it is possible to open up a new direction in a short amount of time after an operator has flagged the image they wish to be able to detect. In this case, the ability to know when a sensor has been left in security, risk-free areas not only increases safety but drives down associated insurance and legal costs. Liberty Mutual Insurance, for example, estimates that for every \$1 spent on upgrading safety, \$5 in costs dollars is saved. People



By Brett Beckstein

Automating Campus Security with Deep Learning Security Solutions

Advancements in computing power have made possible ground-breaking physical security solutions

14 | [campussecurity.com](#) | November 2019

November 2019 | [campussecurity.com](#) | 15

AI-powered solutions, like video analytics, empower security stakeholders with the tools needed to protect the people, places, and critical assets that make up their campuses. [Read the latest article by Vintra in Campus Security & Life Safety's magazine to find out how.](#)

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Monthly Newsletter

The NEXT EVOLUTION of Smart Connected Buildings

3



Vintra is a proud sponsor of Realcomm's upcoming webinar, [*The Cloud, IoT, Sensors and More – The NEXT EVOLUTION of Smart Connected Buildings*](#), on April 4th @ 9:30 am PST.

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Monthly Newsletter

[Vintra wins Govie Award](#)



Vintra is excited to announce that Security Today has selected FulcrumAI as a winner of best Video Analytics product in their [2019 Govie Awards](#)!

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